# Fitchburg Commuter Rail Line Improvement Project

***Route 62 Bridge Roll-In***

**June 1, 2015**

HNTB

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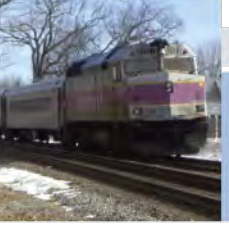
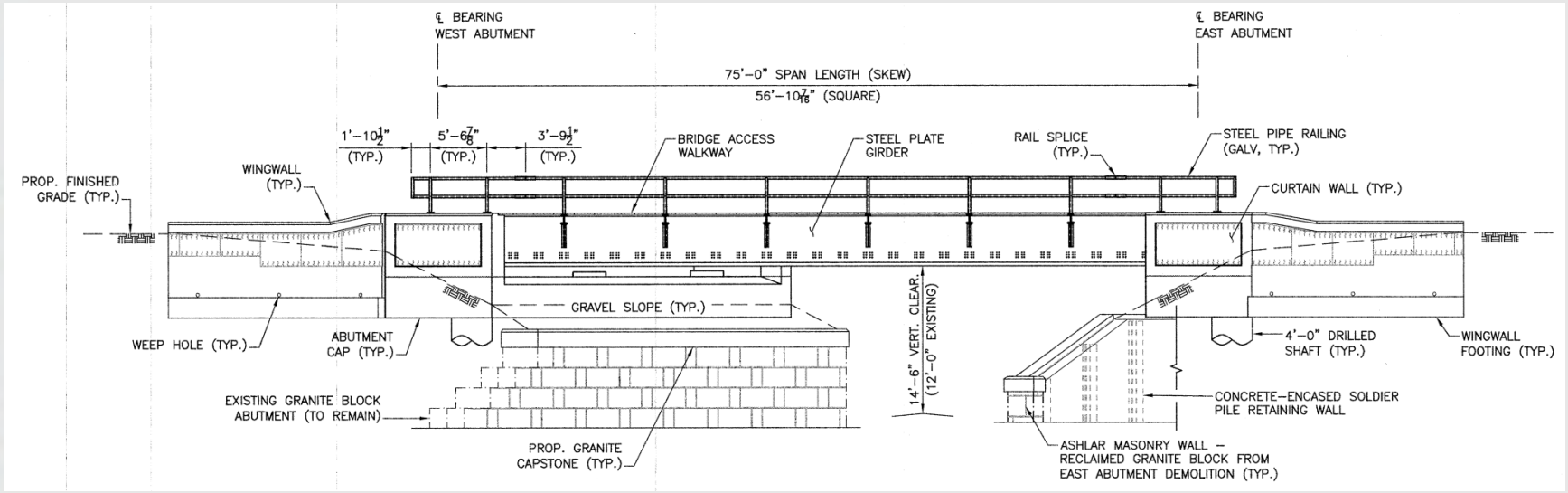
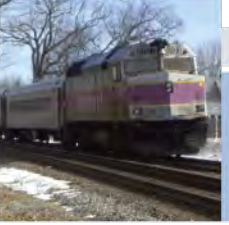
# Existing Route 62 Bridge

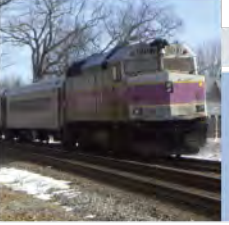


# New Bridge


℄ BEARING
WEST ABUTMENT
℄ BEARING
EAST ABUTMENT
75'–0" SPAN LENGTH (SKEW)
56'–10 7/16" (SQUARE)
1'–10 1/2" (TYP.)
5'–6 7/8" (TYP.)
3'–9 1/2" (TYP.)
BRIDGE ACCESS WALKWAY
STEEL PLATE GIRDER
RAIL SPLICE (TYP.)
STEEL PIPE RAILING (GALV, TYP.)
PROP. FINISHED GRADE (TYP.)
WINGWALL (TYP.)
CURTAIN WALL (TYP.)
GRAVEL SLOPE (TYP.)
14'–6" VERT. CLEAR. (12'–0" EXISTING)
WEEP HOLE (TYP.)
ABUTMENT CAP (TYP.)
4'–0" DRILLED SHAFT (TYP.)
WINGWALL FOOTING (TYP.)
EXISTING GRANITE BLOCK ABUTMENT (TO REMAIN)
CONCRETE–ENCASED SOLDIER PILE RETAINING WALL
PROP. GRANITE CAPSTONE (TYP.)
ASHLAR MASONRY WALL – RECLAIMED GRANITE BLOCK FROM EAST ABUTMENT DEMOLITION (TYP.)

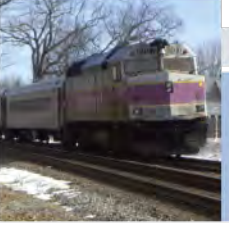


# Current Status of Construction

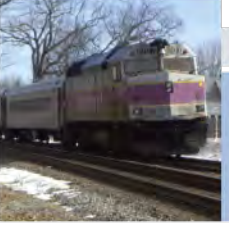


# Bridge Replacement Plan

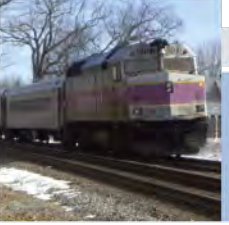
- Use “Roll-In” Method
  - Prepare new foundations behind existing
  - Assemble new bridge next to existing
  - Close Roadway and Railroad
  - Demolish existing bridge
  - Roll new bridge into place
  - Reopen Railroad and Roadway



# Bridge on Temporary Supports

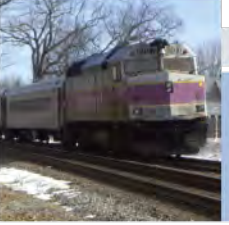


# Bridge on Transporters



# Work Schedule

- Prior to Roll-In
  - Install Phase 1 Foundations (Complete)
  - Install Phase 2 Foundations (Underway)
  - Install Shoring Towers
    - July 6 to 17, weekdays with single lane closures
  - Install Main Girders
    - July 18/19, **weekend days with road closed**
  - Complete assembly, prepare for roll-in
    - July 20 to Aug 25, weekdays w/ lane closures



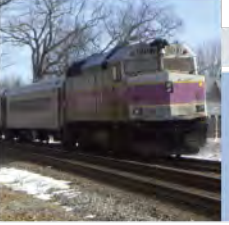
# Work Schedule

- Roll-In Process
  - **Route 62 Closed**

    **Weds. Aug 26 to Weds. Sept 2**

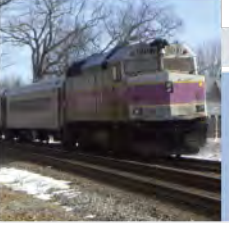
  - Commuter Rail closed on Weekends
  - Commuter Rail busing Friday evening

  - **Fri. Aug 28 to Mon. Aug 31 – 24/7 Work**

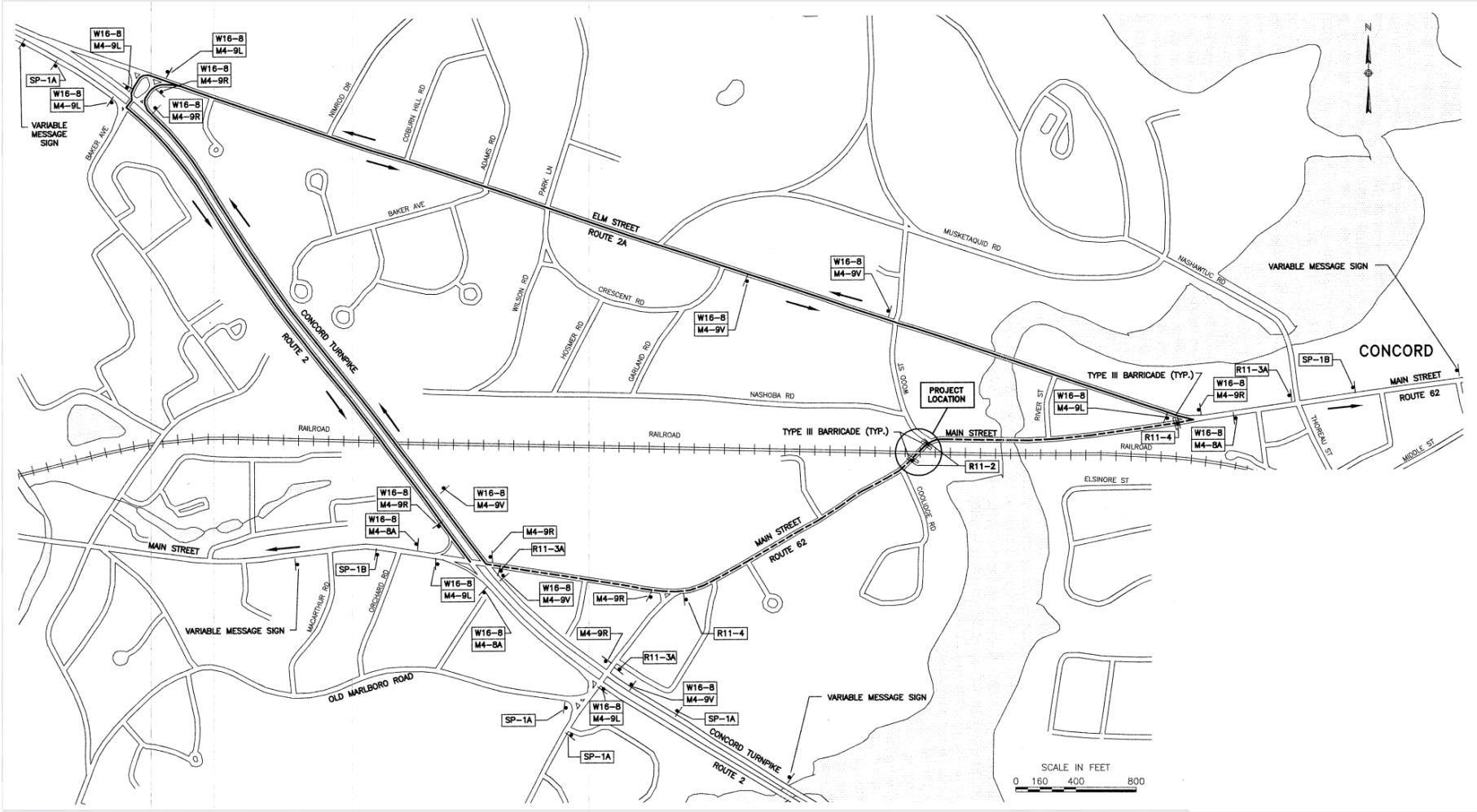


# Work Schedule

- Complete Work:  September to November
  - Finish abutments, widen sidewalk
  - Complete first track, install second track
  - Punch list and clean up
  - Complete Assabet River and Sudbury River Bridges
- Commence faster, two track train service



# Road Closure - Detour Route

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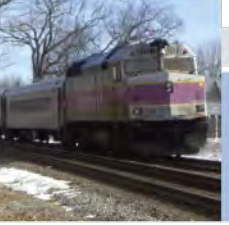
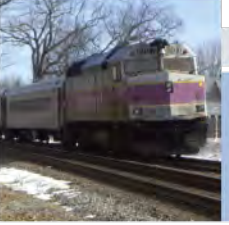


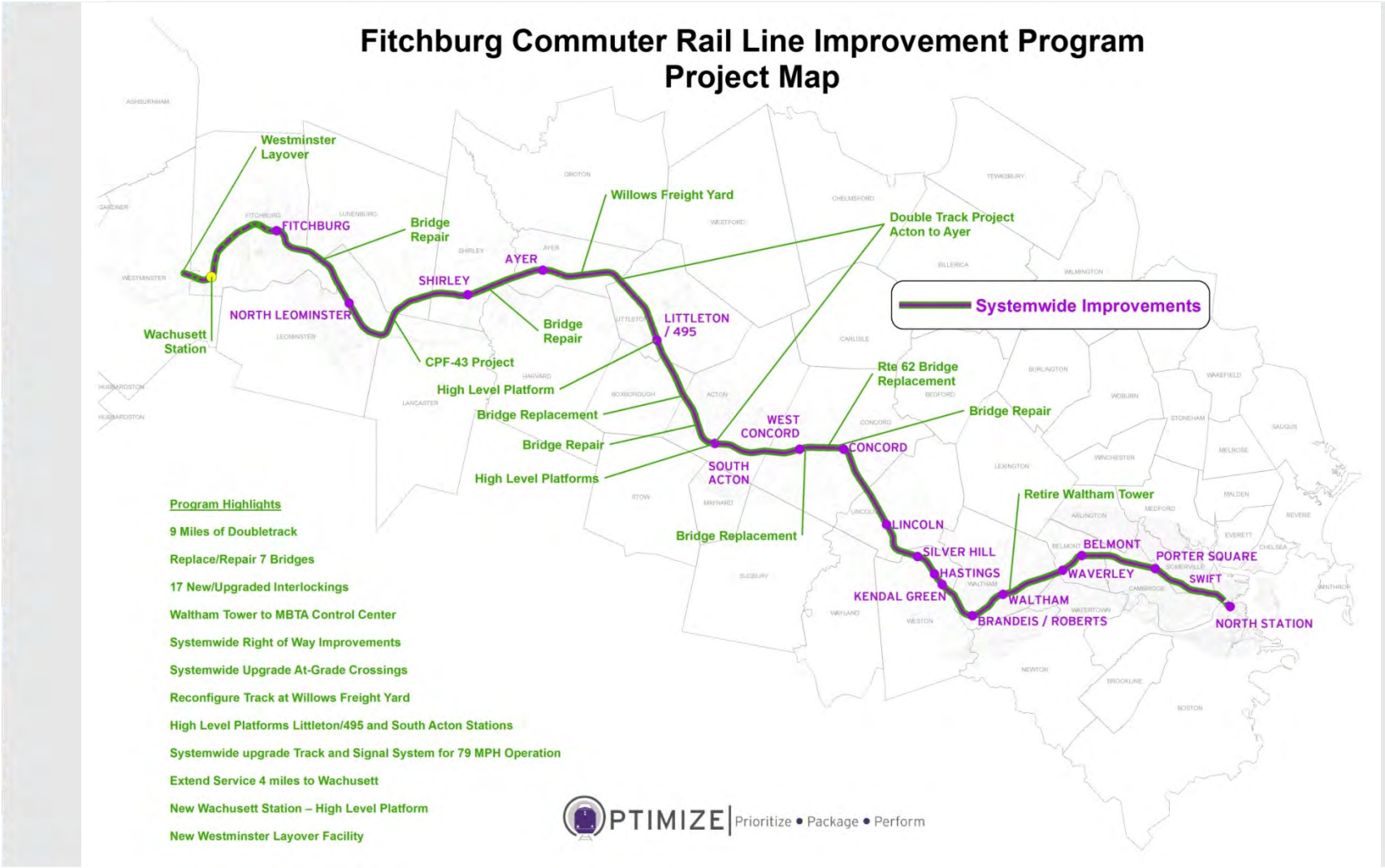
# Woodrow Ave – Roll-in Time Lapse

Video of similar MBTA rail bridge roll in project:

https://youtube.com/watch?v=4rQK4teklgg



# Questions?


Fitchburg Commuter Rail Line Improvement Program
Project Map
Westminster Layover
FITCHBURG
Bridge Repair
Willows Freight Yard
Double Track Project Acton to Ayer
AYER
SHIRLEY
NORTH LEOMINSTER
Wachusett Station
Bridge Repair
LITTLETON / 495
Systemwide Improvements
CPF-43 Project
High Level Platform
Bridge Replacement
Rte 62 Bridge Replacement
Bridge Repair
WEST CONCORD
CONCORD
Bridge Repair
SOUTH ACTON
High Level Platforms
Retire Waltham Tower
LINCOLN
Bridge Replacement
BELMONT
SILVER HILL
PORTER SQUARE
HASTINGS
WAVERLEY
SWIFT
KENDAL GREEN
WALTHAM
BRANDEIS / ROBERTS
NORTH STATION
Program Highlights
9 Miles of Doubletrack
Replace/Repair 7 Bridges
17 New/Upgraded Interlockings
Waltham Tower to MBTA Control Center
Systemwide Right of Way Improvements
Systemwide Upgrade At-Grade Crossings
Reconfigure Track at Willows Freight Yard
High Level Platforms Littleton/495 and South Acton Stations
Systemwide upgrade Track and Signal System for 79 MPH Operation
Extend Service 4 miles to Wachusett
New Wachusett Station – High Level Platform
New Westminster Layover Facility
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